

2008-01 Total Alkalinity

Duplicate analysis for samples drawn from a single Niskin bottle:

Event Number	Sample Number	Station	Pressure dbar	ALK 1 μmol/kg	ALK 2 μmol/kg	ALK 3 μmol/kg	Difference μmol/kg	Absolute Difference	Standard Deviation	Comments
12	63	P4	1000.6	2366.93	2365.21		1.72	1.72		
24	131	P12	1500.6	2401.55	2401.62		-0.06	0.06		
35	217	P16	3497.2	2434.60	2434.11		0.49	0.49		
46	338	P26	601.4	2359.07	2359.32		-0.25	0.25		
55	389	Calib	1501.8	2400.40	2398.03	2399.77			1.23	
55	390	Calib	1499.3	2398.17	2398.36	2397.05			0.71	
55	391	Calib	1501.7	2395.43	2395.75	2395.86			0.22	
55	392	Calib	1500.3	2396.37	2397.53	2396.32			0.68	
55	393	Calib	1500.5	2394.89	2393.94	2394.28			0.48	
average variability:							0.47		0.65	
standard deviation of variability:							0.89		0.53	

Duplicate Niskins at the same pressure

Event Number	Sample Number	Station	Nominal Pressure dbar	ALK A μmol/kg	ALK B μmol/kg	ALK C μmol/kg	ALK D μmol/kg	ALK E μmol/kg	Difference μmol/kg	Absolute Difference	Standard Deviation	Comments
12	63 / 64	P4	1000	2366.07	2368.59				2.52	2.52		
24	131 / 132	P12	3000	2401.59	2401.47				-0.11	0.11		
35	217 / 219	P16	3500	2434.36	2434.93				0.58	0.58		
40	269 / 270	P20	3000	2421.82	2421.07				-0.75	0.75		
55	389 - 393	Calib	1500	2399.40	2397.86	2395.68	2396.74	2394.37			1.94	
average variability:									0.6		1.2	
standard deviation of variability:									1.4		1.0	

Precision estimate: 1.20 μmol/kg